PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant': 9516-186-1	s or agent's file reference 228	FOR FURTHER ACTION as well as	see Form PC1/ISA/220 where applicable, item 5 below
Internation PCT/US04	al application No. 3/37084	International filing date (day/month/year 04 November 2004 (04.11.2004)	(Earliest) Priority Date (day/month/year 06 November 2003 (06.11.2003)
Applicant CEL GEN	E CORPORATION		
This interr	national search report has beer	prepared by this International Searching transmitted to the International Bureau.	3 Authority and is transmitted to the applica
_		A	
This interr	national search report consists	d by a copy of each prior art document ci	ited in this report.
		a by a copy of each pilot art document of	
l a. \	of the Report With regard to the language, the language in which it was filed, u	international search was carried out on the nless otherwise indicated under this item.	e basis of the international application in the
		I search was carried out on the basis of a tr	anslation of the international application furni
ъ	With regard to any nucleot	ide and/or amino acid sequence disclosed	in the international application, see Box No. l
2.	Certain claims were found	unsearchable (See Box No. II)	
3.	Unity of invention is lacking	ng (See Box No. III)	
4. Wit	th regard to the title,		
	the text is approved as subm		
	the text has been established	d by this Authority to read as follows:	
5. Wii	th regard to the abstruct,		
). W	the text is approved as subn	nitted by the applicant.	
	-		rity as it appears in Box No. IV. The applica
L	may, within one month from	n the date of mailing of this international se	earch report, submit comments to this Authori
6. With	regard to the drawings,	published with the abstract is Figure No	
<u></u>	as suggested by the		
		Authority, because the applicant failed to s	suggest a figure.
		Authority, because this figure better character	
ь. Г	_	published with the abstract.	
	none of the trailies is to be		

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:	HONY M. INSOGNA	PCT	
JONE 222 E	EAST 41ST STREET Y YORK, NY 10017	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL	
		SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)	
		Date of mailing (day/month/year)	
	icant's or agent's file reference -186-228	FOR FURTHER ACTION See paragraphs 1 and 4 below	
	national application No. /US04/37084	International filing date (day/month/year) 04 November 2004 (04.11.2004)	
Appli CEL	icant GENE CORPORATION		
1.	The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the written opinion of the International Searching Authority	
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla	ims of the international application (see Rule 46):	
	When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international	
	Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.	0, 34 chemin des Colombettes : +41 22 740 14 35	
	For more detailed instructions, see the notes on the a	ccompanying sheet.	
2. [The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the	ch report will be established and that the declaration under the international Searching Authority are transmitted herewith.	
3.			
)	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.		
	no decision has been made yet on the protest; the app		
	Reminders		
1	Bureau If the applicant wishes to avoid or postpone publication priority claim, must reach the International Bureau as provided in technical preparations for international publication.	e, the international application will be published by the International on, a notice of withdrawal of the international application, or of the Rules 90bis.1 and 90bis.3, respectively, before the completion of the	
	International Bureau. The International Bureau will send a copy preliminary examination report has been or is to be established before the expiration of 30 months from the priority date.	the written opinion of the International Searching Authority to the of such comments to all designated Offices unless an international These comments would also be made available to the public but not	
	examination must be filed if the applicant wishes to postpone the (in some Offices even later); otherwise, the applicant must, with entry into the national phase before those designated Offices.	of some designated Offices, a demand for international preliminary centry into the national phase until 30 months from the priority date in 20 months from the priority date, perform the prescribed acts for	
		s (or later) will apply even if no demand is filed within 19 months.	
	See the Annex to Form PCT/IB/301 and, for details about the ap Volume II, National Chapters and the WIPO Internet site.	plicable time limits, Office by Office, see the PCT Applicant's Guide,	
Name	and mailing address of the ISA/ US	Authorized officer January Dhalin of	
	Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Vickie Kim	
	P O Box 1450 Alexandria, Virginia 22313-1450		
	mile No. (703) 305-3230	Telephone No. 571-272-1600	
Form P	Form PCT/ISA/220 (January 2004) (See notes on accompanying shee		

L00006312

INTERNATIONAL SEARCH REPORT



nternational Application No PCT/EP 98/06233

A. CLASSIF IPC 6	RECATION OF SUBJECT MATTER A61K38/19 A61K48/00			
According to	International Patent Classification (IPC) or to both national classification	fication and IPC		
B. FIELDS				
Minimum do IPC 6	cumentation searched (classification system followed by classific $A61K$	ation symbols)		
	ion searched other than minimum documentation to the extent the			
Electronic da	ate base consulted during the international search (name of data	base and, where practical, search terms used	:	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.	
x	WO 95 21864 A (LUDWIG INST CANC ;NICHOLSON SANDRA ELAINE (AU); JUDIT) 17 August 1995 see page 4, line 14 – page 9, 1	LAYTON	12-22	
А	AHARINEJAD S ET AL: "CSF -1 treatment promotes angiogenesis in the metaphysis of osteopetrotic (toothless, tl) rats." BONE, (1995 MAR) 16 (3) 315-24. JOURNAL CODE: ASR. ISSN: 8756-3282., XP002094806 United States see the whole document		1-11	
		-/		
X Furt	ther documents are listed in the continuation of box C.	X Patent family members are listed	d in annex.	
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance.		"T" later document published after the int or priority date and not in conflict with cited to understand the principle or the invention	h the application but	
*E" earlier document but published on or after the international filling date "L" document which may throw doubts on priority claim(e) or		cannot be considered novel or canno involve an inventive step when the d	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
which is cited to establish the publication date of another citation or other special reason (as specified) "O" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document resembled with one or more other such documents, such combination being obvious to a person skilled		nventive step when the nore other such docu-		
P" docum	"P" document published prior to the international filing date but attended than the priority date claimed at the same patent tamify." S. document member of the same patent tamify.			
	e actual completion of the international search 25 February 1999	Cate of making of the international e	earch report	
<u> </u>				
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Sitch, W		
i i	Fax: (+31-70) 340-3016	1		

Form PCT//SA/210 (second sheet) (July 1992)

1



nternational Application No
PCT/EP 98/06233

		rci/Er 90	
C.(Continua	INION) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	ITO W D ET AL: "MONOCYTE CHEMOTACTIC PROTEIN-1 INCREASES COLLATERAL AND PERIPHERAL CONDUCTANCE AFTER FEMORAL ARTERY OCCLUSION" CIRCULATION RESEARCH, vol. 80, no. 6, June 1997, pages 829-837, XP002074060 see page 829 see abstract		
P,X	BUSCHMANN, IVO ET AL: "GM- CSF promotes collateral artery growth via prolongation of macrophage survival." JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, (JUNE, 1998) VOL. 30, NO. 6, PP. A126. MEETING INFO.: XVI WORLD CONGRESS OF THE INTERNATIONAL SOCIETY FOR HEART RESEARCH: CARDIOVASCULAR BIOLOGY AND MEDICINE INTO THE 21ST CENTURY ISSN: 0022-2828., XP002094807 see abstract 494		1-11
			•

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

1

International application No.

INTERNATIONAL SEARCH REPORT

PCT/EP 98/06233

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claims 1, 3-8, 11, 12, 14-21 partially and claim 10 completely are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: .
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all
As all required additional search rees were timely paid by the applicant, this international search report covers and searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1998)





ternational Application No PCT/EP 98/06233

Patent document	Publication date	Patent family	Publication
cited in search report		member(s)	date
WO 9521864 A	17-08-1995	AU 700798 B AU 1915395 A CA 2182494 A EP 0749445 A JP 9508799 T	14-01-1999 29-08-1995 17-08-1995 27-12-1996 09-09-1997

Form PCT/ISA/210 (petent family armex) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37084

IPC(7)	SSIFICATION OF SUBJECT MATTER : A61K 31/4035, 31/52, 31/522, 38/19, 48/00 : 514/234.2, 263.37, 417, 251, 283, 241		
US CL According to	International Patent Classification (IPC) or to both nat	ional classification and IPC	
	DS SEARCHED		
Minimum do U.S.: 5	ocumentation searched (classification system followed b 14/234.2, 263.37, 417, 251, 283, 241	y classification symbols)	
Documentat	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched
	ata base consulted during the international search (name Continuation Sheet	of data base and, where practicable, sea	rch terms used)
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim
Y	US2003/0187052 A1(MULLER et al) 02 Octobe, 20	3(02.10.2003), see full text.	1, 2, 5-11
Y	WO99/17798(BUSCHMANN et al) 15 April 1999(1	5.04.1999), see full text.	1-29
Y	US6,589,950B1 (COLLINGWOOD et al) 08 July 20		1, 2, 5-11
Y, P	US2004/0067953 A1 (STEIN et al) 08 April 2004(08	3.04.2004), see full text.	1, 4, 21-29
Y, P	US2004/0242578A1 (BOLOOR et al) 02 December 2	2004 (02.12.2004), see full text.	1, 3, 12-20
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	
"A" docume particula	Special categories of cited documents. In defining the general state of the art which is not considered to be of ar relevance.	"T" later document published after the indate and not in conflict with the apprinciple or theory underlying the industry." "X" document of particular relevance, the	lication but cited to understand evention to claimed invention cannot be
	pplication or patent published on or after the international filing date nt which may throw doubts on priority claim(s) or which is cited to	considered novel or cannot be consi when the document is taken alone	
establish specific	n the publication date of another citation or other special reason (as d)	"Y" document of particular relevance; the considered to involve an inventive secombined with one or more other states to the state of t	tep when the document is sch documents, such combinati
"P" docume	nt referring to an oral disclosure, use, exhibition or other means nt published prior to the international filing date but later than the	being obvious to a person skilled in "&" document member of the same pate	
	date claimed actual completion of the international search	Date of mailing of the international sea	
25 July 200	5 (25.07.2005)	Authorized officer January	
Name and n	nailing address of the ISA/US	Authorized officer	Juling
Co P.	ail Stop PCT, Attn. ISA/US ommissioner for Patents O. Box 1450 exandria, Virginia 22313-1450	Vickie Kim Telephone No. 571-272-1600	M
	o. (703) 305-3230		

Form PC1/ISA/210 (second sheet) (January 2004)

	INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/37084
③		
<u>`</u>		
	Continuation of B. FIELDS SEARCHED Item 3: REGISTRY, CAPLUS, USPATFUL, WEST, PCTFUL structure searched and term searched:asbestos, asbestosis, pleural effusion, bronchog	genic carcinoma, indolines,etc

Form PCT/ISA/210 (extra sheet) (January 2004)

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